Abstract. I will describe a semi-rigorous reduction of perturbative BF theory (Cattaneo-Rossi [CR]) to computable combinatorics, in the case of ribbon 2-links. Also, I will explain how and why my approach may or may not work in the non-ribbon and ω_1 be volume forms on case. Weak this result is, and at least partially already known (Watanabe [Wa]). Yet in the ribbon case, the resulting invariant is $(\kappa_t)_{t \in T}$, a universal finite type invariant, a gadget that significantly generalizes and clarifies the Alexander polynomial and that is closely

The BF Feynman Rules. For an edge e, let Φ_e be its direction, in S^3 or S^1 . Let ω_3 S^3 and S_1 . Then for a 2-link







$$\zeta = \log \sum_{\substack{\text{diagrams} \\ D}} \frac{[D]}{|\text{Aut}(D)|} \underbrace{\int_{\mathbb{R}^2} \cdots \int_{\mathbb{R}^2} \underbrace{\int_{\mathbb{R}^4} \cdots \int_{\mathbb{R}^4} \prod_{\substack{\text{red} \\ e \in D}} \Phi_e^* \omega_3 \prod_{\substack{\text{black} \\ e \in D}} \Phi_e^* \omega_1}$$

